Bridge Inspection																	
Bridge File Number 01074 -1 Bridge				Ŭ		Form Type			SG	SG							
Year Built/Year 1946/1946					Lo	t No.			1	1							
Supstr					-In:	spector	Nar	ne	Randy Bred	Randy Bredo							
Bridge or Town Name LETHBRIDGE								BR CLS A									
Located Over 14219:02 C1 0.267;OLDMAN RIV WATERCRS-ST			IVER, 2.12, Assistant Name														
Located On			R1 2.183;3:0	9112	189			As	ssistant	Clas	SS						
Water Body Cl./	Year	0.00	1(1 2.100,0.0	J L 1 Z.	100	Inspection Date			19-Jun-201	2							
Navigabil. Cl./Year							Da	Data Entry By			Lauren Kor	Lauren Korte					
Legal Land Location NW SEC 1 TWP 9			RGF	22 W4N	1		Da	Data Entry Date			17-Oct-201	17-Oct-2012					
						<u> </u>		Re	Reviewer Name			Garry Robe	Garry Roberts				
Longitude, Latitude -112:51:55, 49:42  Road Authority Alberta Transport								Review Date			04-Oct-201	2					
Contract Main. Area CMA25			alloff (Aff)					Dept. Reviewer Name			ne Tim Davies						
Clear Roadway/		19.2						De	ept. Rev	iew	Date	22-Oct-201	2				
AADT/Year	<u> </u>	-	80 / 2011 (A)					Fo	ollow-Up	Ву							
Road Classificat	ion	<u> </u>	J-211.8-110														
Detour Length (F		4															
Allowable Load (					Semi					Tra	ain			> On Critic	cal Spa	ns	
	.,	3												>Critical N	1ember		
Design Loading:			HS20											> Primary	Span		
								Info	rmation								
Required Vert. C				UNDE	R: 1421	19 C1	3.9m										
Posted Vertical (				Yes													
Posted: Lane	NB		On Bridge (m)		In Adv		,	No	Lane		SB	On Bridge (m	) 4.1	In Advance	(Y/N)	Yes	
Remarks			4.18 @ Int sp			ne. 4.0	6m @	ext. s	spans.) I	May	21/08	3					
Required Load F		(t)		Single		Semi					Truc	k Train					
Posted Loading	(t)			Single				Semi				k Train					
Posted:	Lane		B	At Jun	ction (Y	′/N)	No				ce (Y/N	,		ridge (Y/N) No			
Posted:	Lane	-	VB	At Jun	ction (Y	′/N)	No		In Adv	vand	ce (Y/N	N) No	At B	ridge (Y/N)	No		
Remarks	Not re																
Hazard Marker A	At Brid	ge (Y	/N) No														
Remarks																	
Other Sign Types		River ID	ver ID, no bike, no ped on WB. KM/hr on EB, 100km/h WB														
Utilities (Located at)																	
Utility Attachmer	Utility Attachments GAS UTILITIES-GAS LINE; OTHER UTILITIES-OTHER LINES; TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE																
Telephone	North	side.	6 conducts @	G7G8	3			G	as		No	rth & South.					
Power			ssing 30m Ea					unicipal									
Others			on medium.	<del></del>				oblem (		) Ye	Yes						
Remarks	U-clar	np or	n gas line brok	en @ N	NE and	NW			,		,						
			_				Appro	ach	Road								
						Last	Now	/ Ex	planati	on	of Cor	ndition					
Horizontal Alignment			7	6		ırve We		nd.									
Vertical Alignment			7	6	Hi	ll to Eas	ī.										
Roadway Width (m) 19.000						W	/B recer	ntly	paved	. Small pothole	E/B E	ast end.					
Approach Bump	Approach Bump				4	4											
Guardrail (Y/N)			Yes									and NW.	4 6/11				
Guardrail						5	4	_ Ir _ W	iriebean rong lap	n + :	steel I: NW ar	-posts at NE an nd SE.	u SW.				
Length (m)			30.000						5 1								
Current Standa	ard (Y/	N)	No														
Termination Ty	/pe		FLARE	END													
Drainage						6	6										

						ch Road
				Last	Now	Explanation of Condition
Approach Road General Rating					6	
						tructure
Bridge Compo						Explanation of Condition
		8 Spans, Len	gths(m): 24.5	-32.1-3	2.1-32.	1-32.1-32.1-32.1-24.5, A-Ident Number: A0182-01)
Special Featu						
Special Featur	re				X	
(Type:)						
Special Featur	е				X	
(Type:)	/D . I . T	D ( !! D ( !				
Wearing Surfa				2 (0()		
_	N (%)	1 (%)	2 (%)	3 (%)	^	
Last Now	0.0	0.0	0.0	0.0		
		0.0	0.0			High density ED 2, 2mm excels CE fibre MD
Wearing Surfa		TC\		5	5	High density EB, 2 - 3mm cracks SF fibre WB.  Medium transverse cracks @ 05m -1.0m O/C all spans.
(Material Typ	pe : CONCRE	: I <b>C</b> )				·
	11111) . <b>30</b> )					
Deck Top				N	N	
Deck Rideability				7	7	
Deck Joints				4	4	Rate 4 due to leak comment.
Temperature	e (deg. C)	15				(Both joint leak) 12 Nov 2011.
(Expansion	Type : <b>ARMO</b>	URED GLAN	D (WABO UN	DER FI	NGER	
OR SLIDING	• • • • • • • • • • • • • • • • • • • •					
(Fixed Type						
Gap Size (m	im)		_ocation			
60		NE al				
75 NW abut						
90 SW abut						
40 SE abut						
Deck Drainage	2			4	4	Drains sealed off @ South gutter by concrete barrier @ South.
Drains Clogo		No		-	-	Drains open @ median. Active leakage at A1 plumbing.
Curbs/Median				3	5	Typical vertical cracking on median.
				3 3		Water & efflorescence on curb undersides,
(Curb Type : <b>Standard</b> )  Scaling (Percent Area) 5						Medium transverse cracks @ 1.0m WB curb.  Jersey concrete barriers at South curb.
Bridge Rail				4	4	Damaged midrails at Sp 5 WB - Minor and ST at E/B bent 100mm.
	VANIZED ST	EEL BRIDGE	E TUBE)			1
Bridge Rail Po			,	4 4		1 missing bolt. Insufficient threads @ SE post. Behind barrier at SE @EXP RAIL.
		OST STEEL;	SALVANIZED	-		Section of rail missing at S2 North. Rebar installed in place off rail.
Bridge Rail/Po	sts Coating			7	6	
(Type : GAL						
Sidewalk	,			7	7	
-iao irain						

			Supers	structure				
Bridge Component		Last	Now	Explanation of Condition				
(Primary Span : RG (WG), 8 Span	ans, Lengths(m): 24.5	-32.1-3	2.1-32.	1-32.1-32.1-32.1-24.5, A-Ident Number: A0182-01)				
Girder/Beam								
Cover Plate			4	Corrosion stresses bending & some loss of section of coverplates.				
Flange			5	(4 flanges have repaired cracks.)				
Web			5	Minor high loud scrapes Sp.8-G1 and G2.				
Stiffeners		4	5	(Welds are poor leaving weak heat affected zone with history of				
Splice		7	5	cracking). See 2012 Level 2 inspection for details.				
Weld		3	5					
Diaphragms/Cross Frame		5	5					
Paint Condition		4	4	Spot rust on exterior girders.				
(Colour Description : BLUE)								
(Colour Code : <b>15182</b> )								
Touchup Required (Y/N)	No							
Bearings		6	3	Rocker bearings @ WB. roller nest & D&D @ EB.				
Temperature (deg. C)	15			Pinned fix @ P4. 25% corrosion.				
(Expansion Type : ROLLER N	IEST BEARING)			(No connection between masonary plate & superstructure - missing				
(Fixed Type : PINNED BEARI	·			anchor nuts on some bearings.) Rollers have lost curves and flattened out.				
Coating Adequate (Y/N)	No							
Functioning (Y/N)	Yes							
Deck Underside		5	5	Transverse crack staining prior to new overlay.				
Stains (Percent Area)	2							
Span Alignment Problems								
Vertical (Y/N)	No							
Horizontal (Y/N)	No							
Superstructure General Rating		3	3					
			Subst	ructure				
Bridge Component		Last	Now	Explanation of Condition				
Abutments			1.1011					
Bearing Seats/Caps		6	6	Narrow vertical cracks at East abutment backwall / breast wall.				
(Type : CONCRETE)								
Backwalls/Breastwalls		5	5	Wide crack at NW backwall.				
Wingwalls		5	5	Heavy scaling at SW - 1.5m long at top.				
Piles		N	N	Buried.				
Paint/Coating		Х	Х					
Abutment Stability		7	7					
Scour/Erosion		5	6					
Piers/Bents								
(Type : PIER-SOLID)								
Decrine Conta/Cons		6	6					
Bearing Seats/Caps		0	0					
(Type : <b>CONCRETE</b> )		0						
(Type : CONCRETE)	0:0:0:0:0:0)	0	0	3mm to 5mm wide vertical crack @ construction ioints of piers.				
(Type : <b>CONCRETE</b> ) (Total Number of Bearing Piles :	0:0:0:0:0:0:0)			3mm to 5mm wide vertical crack @ construction joints of piers.  Massive piers.				
(Type : CONCRETE)	0:0:0:0:0:0:0)	5 X	6 X	3mm to 5mm wide vertical crack @ construction joints of piers. Massive piers.				

				ructure				
Bridge Component	L	_ast	Now	Explanation of Condition				
Paint/Coating		5 5		Parging and graffiti covered. Tight corrosion at nose plates.				
(Colour Description : )				- Hight controller at nooe plates.				
(Colour Code : )			ı					
Pier Stability		8	8	(Scoured around P3, P4 & P5) - submerged Minor debris @ P4.				
Scour		N	N	Water to dark and high to see scour.				
Debris (Y/N)	Yes			Drift at P4- minor.				
Substructure General Rating		5	6					
		s	tructu	re Usage				
			Now	Explanation of Condition				
Channel								
(U/S Direction : S)								
(D/S Direction : N)								
Alignment			7					
Bank Stability		4	4	Vertical banks at East.				
HWM (m below Top of Curb)	4.0			No visible HWM.				
Drift (Y/N)	Yes			Minor.				
Slope Protection		5	5					
(Type: NATURAL; NATURAL	.)							
Guidebank/Spurs		8	7	Conc SP @ P7 only, remainder natural.				
Adequacy of Opening		8	8					
(Fish Compensation Measure 1	: NONE)							
(Fish Compensation Measure 2	: NONE)							
Channel General Rating		4	4					
Grade Separation								
Road Alignment		6	6					
Traffic Safety Features			4	Wrong lap at NE.				
Туре	Guardrail							
Slope Protection		5	5	Steel Binwall at East.				
(Type: NATURAL; NATURAL	.)			Corrosion perforations- isolated.				
Bank Stability		5	6					
Drainage		7	7					
Grade Separation General Rat	ing	5	6					

		Maintenance Recommer	ndations					
Inspector Recommendations	Year	Inspector Comments	Department Co	mments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Install 3.2m section of rail. 50mm Sq. at S2 at W/B.						
GALVANIZE/PAINT BRIDGE RAIL								
RETROFIT BRIDGE RAIL								
SEAL CURBS								
PATCH DECK								
SEAL DECK								
OVERLAY DECK								
REPAIR/REPLACE DECK JOINTS	2012	Investigate and repair leakage at abut plumbing.						
RESET/ PAINT BEARINGS	2012	Replace all expansion bearings.						
REPAINT SUPERSTRUCTURE								
STRAIGHTEN/REPLACE MEMBERS								
WASHING								
SHOTCRETE REPAIRS								
REPAIR ABUTMENT SCOUR/EROSION								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
OTHER ACTION	2012	Paint / seal stress corrosion areas @ exterior girders.						
OTHER ACTION	2012	Repair U-clamp at NE and NW at gas line.						
OTHER ACTION	2012	Fill open holes with bolts.						
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/Now) (%)	44.4/50	Sufficiency Rating (Last/Now) (%)	44.2/46.6	Est. Repl. Yr	2043	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection		,	Department Comments					
Maintenance Reviewed By			Date		E	stimated Total	1 0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								

Proposed Action			
Previous Inspector's Name	Tom Carey	Previous Assistant's Name	
Next Inspection Date	19-Mar-2014	Previous Inspection Date	12-Nov-2011
Inspection Cycle (Default) (months)	21		
Comment			